Lake St.: Section 1

DRAFT Roadway Restriping Guide to Providing Bicycle Facilities

Arlington BAC/TAC Roadway Restriping Working Group

STREET Lake Street - section #1	CURB-TO	-CURB WIDTH30' - 35'	
	YES	NO	
 Is the roadway part of the designated bike network* in the Town? 	X Go to Question #2-4	Bike facility not necessary or appropriate	
2. Parking allowed on both sides: is the roadway			
at least 44' in width	Go to Bike Lane Design Guide	LI See Shared Lane Marking Matrix	
3 Parking allowed on one side: is the roadway			71
at least 36' in width	Go to Bike Lane Design Guide	LI See Shared Lane Marking Matrix	
 Parking prohibited: is the roadway at least 28' in width 	X Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	

Shared Lane Marking Placement Matrix

Posted or 85th percentile roadway	Shared lane marking placement			
speed (whichever is lower)	Curb-side travel lane < 13'	curb-side travel lane ≥ 13'		
≤ 25 mph without parking	center of travel lane	4'-0" from curb		
≤ 25 mph with parking	center of travel lane	11'-0" from curb		
26 – 35 mph without parking	4'-0" from curb **	4'-0" from curb		
26 – 35 mph with parking	11'-0" from curb **	11'-0" from curb		
> 35 mph with or without parking	SLM not appropriate	SLM not appropriate		

^{** -} there is a certain trade off that will need to be acknowledged as SLM placement 4' or 11' from the curb within travel lanes <13' will suffer more wear and tear, but very few cyclists should be encouraged to ride in the center of the travel lane when speeds typically exceed 26 mph.

^{* -} network includes: Mass Ave, Park Ave, Summer Street, Lowell Street, Gray Street, Mill Street, Jason Street, Pleasant Street, Mystic Street, Mystic Valley Parkway (DCR), Medford Street, Broadway, Warren Street, Bates Road, River Street and Lake Street

No MBTA Bus Routes, Truck Exclusion Speed Limit; 25 mph Length ~710

shoulder	travel lane	travel lane	shoulder	
3.5'-6'	10.5'	10.5'	3.5'-6'	
4"	Lake St.	: Section 1	4.	

DRAFT Context-sensitive Bike Lane Design Guide

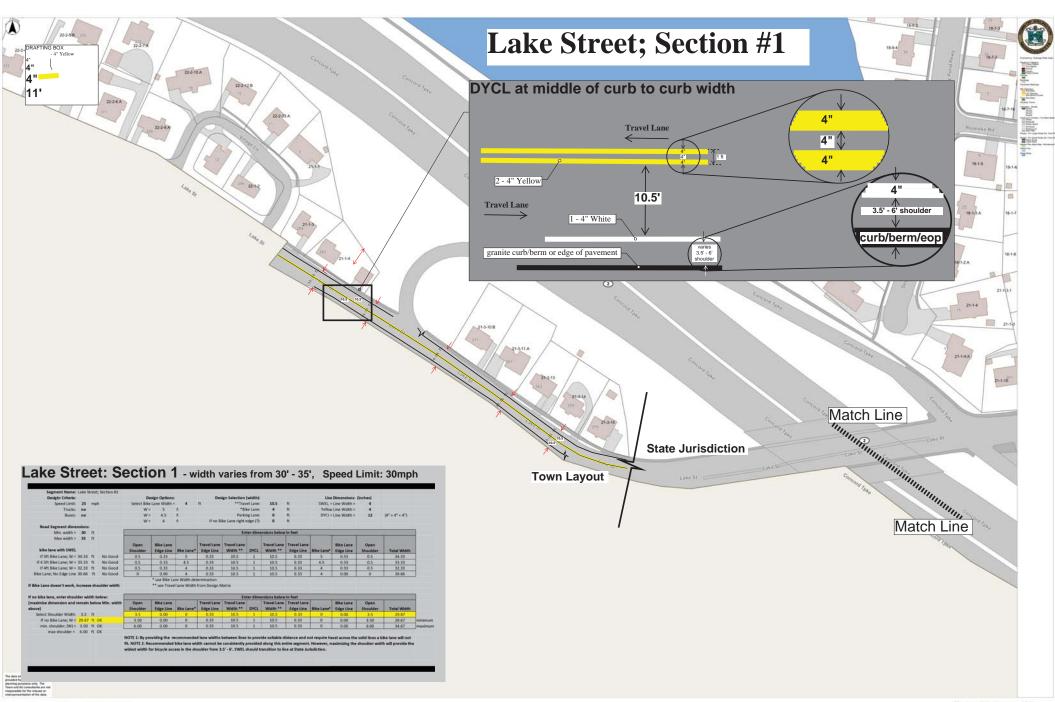
Arlington BAC/TAC Roadway Restriping Working Group

Lake Street	- section #1		C	URB-TO-CURB WIDT	waries 30' - 35'
		NO	YES		
TRAVEL LANE			X	start with: 10'-0"	
	o bus/truck traffic?		\Box	no change	
Moderate** b	ous/truck traffic?	\Box	X	add 6"	
Final 2 and	ous/truck traffic? - OR -			add12″	
	speeds <30 mph?		X	no change	
Typical traffic	speeds 30-40 mph?			add 6"	
Typical traffic	speeds >40 mph?			add 12"	
		SUB-TOTAL	10.	5'	
BIKE LANE			X	start with: 5'-0"	
Absence of c	urb-side parking?		X	OK to subtract 6"	
Limited* or n	o bus/truck traffic?			OK to subtract 6"	
Moderate** k	ous/truck traffic?		X	no change	
Frequent***	bus/truck traffic?			add 6″	
Typical traffic	speeds <30 mph?			no change	
Typical traffic	speeds 30-40 mph?			no change	NOTE: By providing
Typical traffic	speeds >40 mph?			add 6"	recommended lane widths between lines to provide
		SUB-TOTAL	4	5'	suitable distance and not require travel across the solid line a bike lane will
PARKING LANE _None	e - No Parking Allo	wed	X	start with: 7'-6"	not fit, a shoulder 3.5ft -
No storefron	t retail along street?		X	OK to subtract 6"	6ft will be provided
Some areas	of storefront retail?	X		no change	
Continuous	storefront retail?	X		add 6-12" dependin	g on level of turnover
(higher cyclin Significant up	wnhill stretch? g speeds when >2%) hill stretch? speeds when >2%)	X		add 6" OK to subtract 6"	
		SUB-TOTAL	N.	AI	DEAL OTAL

^{* -} Limited bus/truck traffic: fewer than 10 buses and trucks in each direction per weekday peak hour

^{** -} Moderate bus/truck traffic: between 10-40 buses and trucks in each direction per weekday peak hour

^{*** -} Frequent bus/truck traffic: more than 40 buses and trucks in each direction per weekday peak hour



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Arlington BAC/TAC Roadway Restriping Working Group

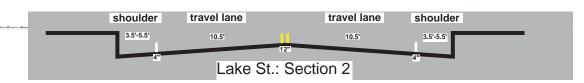
STREETLake Street - section #2	CURB-TO	-CURB WIDTH30' - 34'	R
	YES	NO	
 Is the roadway part of the designated bike network* in the Town? 	Go to Question #2-4	Bike facility not necessary or appropriate	
2. Parking allowed on bath sides is the sandways			••••
at least 44' in width	Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	
. Bu Parking allowed on one sider in the roadways a		X X X X X X X X X X X X X X X X X X X	•
at least 36' in width	Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	
 Parking prohibited: is the roadway at least 28' in width 	Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	
* - network includes: Mass Ave, Park Ave, Summer Pleasant Street, Mystic Street, Mystic Valley Parkwa Road, River Street and Lake Street Shared Lane		, Broadway, Warren Street, Ba	

Posted or 85th percentile roadway	Shared lane marking placement			
speed (whichever is lower)	Curb-side travel lane < 13'	curb-side travel lane ≥ 13'		
≤ 25 mph without parking	center of travel lane	4'-0" from curb		
≤ 25 mph with parking	center of travel lane	11'-0" from curb		
26 – 35 mph without parking	4'-0" from curb **	4'-0" from curb		
26 – 35 mph with parking	11'-0" from curb **	11'-0" from curb		
> 35 mph with or without parking	SLM not appropriate	SLM not appropriate		

Matrix indicates Sharrow 4' from curb edge

^{** -} there is a certain trade off that will need to be acknowledged as SLM placement 4' or 11' from the curb within travel lanes <13' will suffer more wear and tear, but very few cyclists should be encouraged to ride in the center of the travel lane when speeds typically exceed 26 mph.

Speed Limit; 30mph Length ~1,230 No MBTA Bus Routes, Truck Exclusion



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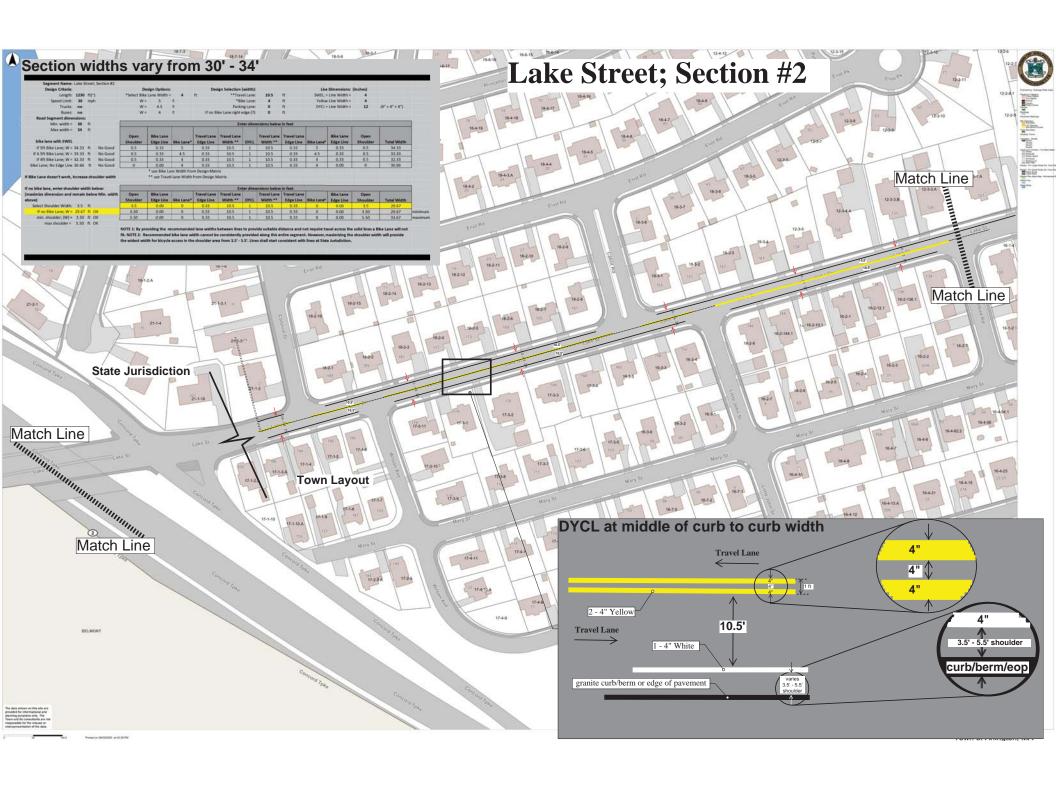
Arlington BAC/TAC Roadway Restriping Working Group

STREET _	Lake Street; Section #2		CURB-TO-CURB WIDTH varies 30' - 34'
		NO	YES
TRAVELL	ANE —		X start with: 10'-0"
	Limited* or no bus/truck traffic?		NOTE: By providing recommended lane
	Moderate** bus/truck traffic?		add 6" widths between lines to
	Frequent*** bus/truck traffic? - OR -		add12" provide suitable distance and not require
	Typical traffic speeds <30 mph?		travel across the solid line a bike lane will not
	Typical traffic speeds 30-40 mph?		fit, a shoulder 3.5ft - 5.5ft will be provided
	Typical traffic speeds >40 mph?		add 12"
		SUB-TOTAL	10.5'
BIKE LAN	E		X start with: 5'-0"
	Absence of curb-side parking?		X OK to subtract 6"
	Limited* or no bus/truck traffic?		X OK to subtract 6"
	Moderate** bus/truck traffic?		no change
	Frequent*** bus/truck traffic?		add 6"
	Typical traffic speeds <30 mph?		no change
	Typical traffic speeds 30-40 mph?		X no change
	Typical traffic speeds >40 mph?		add 6"
		SUB-TOTAL	4.0'
PARKING	LANE _None - No Parking All	owed	X start with: 7'-6"
	No storefront retail along street?		X OK to subtract 6"
	Some areas of storefront retail?	X	no change
	Continuous storefront retail?	X	add 6-12" depending on level of turnover
	Significant downhill stretch? (higher cycling speeds when >2%) Significant uphill stretch? (lower cycling speeds when >2%)	X	add 6" OK to subtract 6"
		SUB-TOTAL	NA IDEAL TOTAL

^{* -} Limited bus/truck traffic: fewer than 10 buses and trucks in each direction per weekday peak hour

^{** -} Moderate bus/truck traffic: between 10-40 buses and trucks in each direction per weekday peak hour

^{*** -} Frequent bus/truck traffic: more than 40 buses and trucks in each direction per weekday peak hour



DRAFT Roadway Restriping Guide to Providing Bicycle Facilities Arlington BAC/TAC Roadway Restriping Working Group Homestead-Margaret / Margaret - Brooks CURB-TO-CURB WIDTH 30'-31.5' 31'- 27' Lake Street - section #3 STREET YES NO X 1. Is the roadway part of the designated bike network* in the Town? Go to Question #2-4 Bike facility not necessary or appropriate 2. Parking allowed on both sides: is the roadway at least 44' in width Go to Bike Lane See Shared Lane Design Guide Marking Matrix Parking allowed on one side: is the roadway at least 36' in width Go to Bike Lane See Shared Lane Design Guide Marking Matrix 3. Parking prohibited: is the roadway at least X 28' in width Go to Bike Lane See Shared Lane Design Guide Marking Matrix * - network includes: Mass Ave, Park Ave, Summer Street, Lowell Street, Gray Street, Mill Street, Jason Street, Pleasant Street, Mystic Street, Mystic Valley Parkway (DCR), Medford Street, Broadway, Warren Street, Bates Road, River Street and Lake Street Shared Lane Marking Placement Matrix Shared lane marking placement Posted or 85th percentile roadway speed (whichever is lower) Curb-side travel lane < 13' curb-side travel lane > 13' center of travel lane 4'-0" from curb ≤ 25 mph without parking center of travel lane 11'-0" from curb ≤ 25 mph with parking

Matrix indicates Sharrow 4' from curb edge

26 - 35 mph without parking

> 35 mph with or without parking

26 - 35 mph with parking

4'-0" from curb **

11'-0" from curb **

SLM not appropriate

4'-0" from curb

11'-0" from curb

SLM not appropriate

^{** -} there is a certain trade off that will need to be acknowledged as SLM placement 4' or 11' from the curb within travel lanes <13' will suffer more wear and tear, but very few cyclists should be encouraged to ride in the center of the travel lane when speeds typically exceed 26 mph.

No MBTA Bus Routes, shoulder travel lane travel lane shoulder **Truck Exclusion** Speed Limit; 30mph Lake St.: Section 3 Section 3A; Length ~880ft Section 3B; Length ~350ft DRAFT Context-sensitive Bike Lane Design Guide Arlington BAC/TAC Roadway Restriping Working Group Homestead-Margaret/ Margaret - Brooks CURB-TO-CURB WIDTH 30'-31.5' 31'- 27' Lake Street - section #3A / #3B YES NO X start with: 10'-0" TRAVEL LANE -Section #3A no change Limited* or no bus/truck traffic? NOTE: By providing Moderate** bus/truck traffic? add 6" recommended lane widths between lines add12" Frequent*** bus/truck traffic? and not allowing travel - OR across the solid lines a no change Typical traffic speeds <30 mph? bike lane will not fit. A shoulder 3.5'-4' will be add 6" Typical traffic speeds 30-40 mph? provided. add 12" Typical traffic speeds >40 mph? 10.5 **SUB-TOTAL** start with: 5'-0" Section #3B **BIKE LANE** NOTE: By providing Absence of curb-side parking? OK to subtract 6" recommended lane Limited* or no bus/truck traffic? OK to subtract 6" widths between lines and not allowing travel Moderate** bus/truck traffic? no change across the solid lines a add 6" Frequent*** bus/truck traffic? bike lane will not fit. A

no change Typical traffic speeds 30-40 mph? Typical traffic speeds >40 mph? add 6" SUB-TOTAL PARKING LANE _None - No Parking Allowed _ X start with: 7'-6" No storefront retail along street? OK to subtract 6" Some areas of storefront retail? no change Continuous storefront retail? add 6-12" depending on level of turnover Significant downhill stretch? add 6" (higher cycling speeds when >2%) Significant uphill stretch? OK to subtract 6" (lower cycling speeds when >2%) IDEAL NA SUB-TOTAL TOTAL

Typical traffic speeds <30 mph?

no change

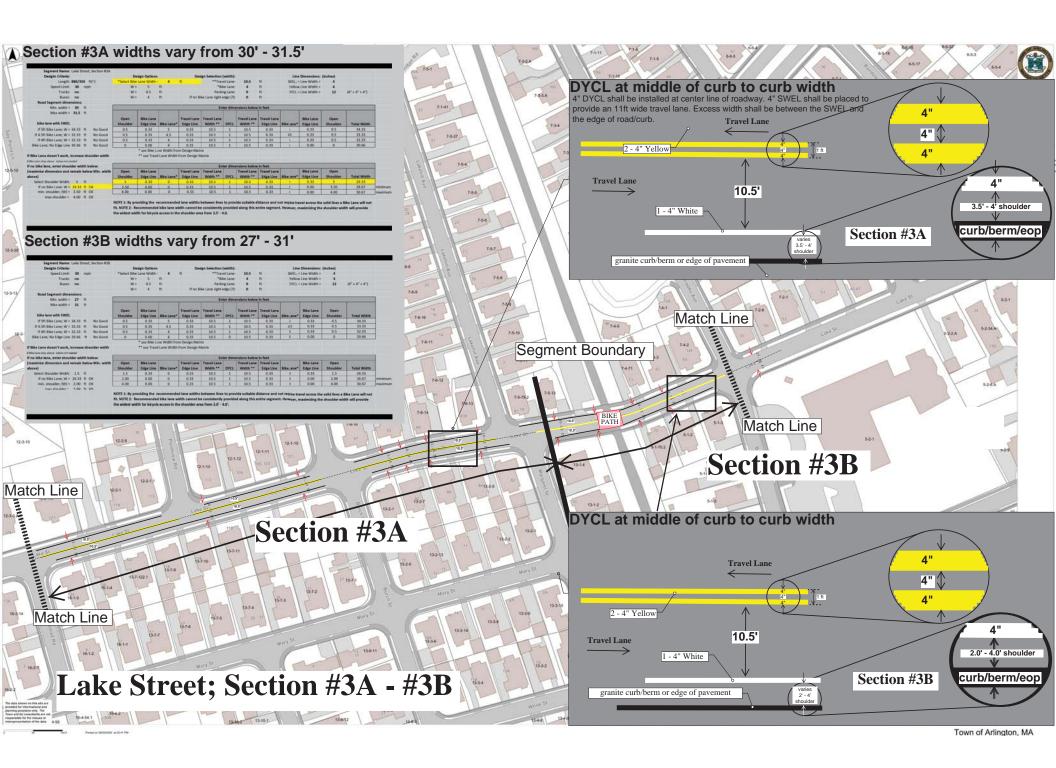
shoulder 2' - 4' will be

provided.

^{* -} Limited bus/truck traffic: fewer than 10 buses and trucks in each direction per weekday peak hour

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DRAFT Roadway Restriping Guide to Providing Bicycle Facilities

Arlington BAC/TAC Roadway Restriping Working Group

ST	REET Lake Street - section #4	CURB-TO	-CURB WIDTH26 -	· 27ft
		YES	NO	
1.	Is the roadway part of the designated bike network* in the Town?	Go to Question #2-4	Bike facility not necessa or appropriate	nry
2.	Parking allowed on both sides: is the roadway at least 44' in width	Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	
3.	Parking allowed on one side: is the roadway at least 36' in width	Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	
3.	Parking prohibited: is the roadway at least 28' in width	Go to Bike Lane Design Guide	See Shared Lane Marking Matrix	
Ple	network includes: Mass Ave, Park Ave, Summer S easant Street, Mystic Street, Mystic Valley Parkway oad, River Street and Lake Street		1801	500

Posted or 85th percentile roadway	Shared lane marking placement			
speed (whichever is lower)	Curb-side travel lane < 13'	curb-side travel lane ≥ 13'		
≤ 25 mph without parking	center of travel lane	4'-0" from curb		
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26 – 35 mph without parking	4'-0" from curb **	4'-0" from curb		
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> 35 mph with or without parking	SLM not appropriate	SLM not appropriate		

Shared Lane Marking Placement Matrix

^{** -} there is a certain trade off that will need to be acknowledged as SLM placement 4' or 11' from the curb within travel lanes <13' will suffer more wear and tear, but very few cyclists should be encouraged to ride in the center of the travel lane when speeds typically exceed 26 mph.

No MBTA Bus Routes,
Truck Exclusion
Speed Limit; 30mph
Length ~ 950 ft



DRAFT Context-sensitive Bike Lane Design Guide

Arlington BAC/TAC Roadway Restriping Working Group Lake Street - section #4 26' - 28' **CURB-TO-CURB WIDTH** YES NO X start with: 10'-0" TRAVELLANE no change Limited* or no bus/truck traffic? Moderate** bus/truck traffic? add 6" add12" Frequent*** bus/truck traffic? - OR no change Typical traffic speeds <30 mph? add 6" Typical traffic speeds 30-40 mph? add 12" Typical traffic speeds >40 mph? 10.5 **SUB-TOTAL** start with: 5'-0" **BIKE LANE** Absence of curb-side parking? OK to subtract 6" NOTE: By providing Limited* or no bus/truck traffic? OK to subtract 6" recommended lane widths between lines to Moderate** bus/truck traffic? no change provide suitable distance and not require add 6" Frequent*** bus/truck traffic? travel across the solid Typical traffic speeds <30 mph? no change line a bike lane will not fit, a shoulder 1.5ft-2.5ft no change Typical traffic speeds 30-40 mph? will be provided Typical traffic speeds >40 mph? add 6" SUB-TOTAL PARKING LANE _None - No Parking Allowed _ start with: 7'-6" No storefront retail along street? OK to subtract 6" Some areas of storefront retail? no change add 6-12" depending on level of turnover Continuous storefront retail? Significant downhill stretch? add 6" (higher cycling speeds when >2%) Significant uphill stretch? OK to subtract 6" (lower cycling speeds when >2%) IDEAL NA **SUB-TOTAL** TOTAL

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